**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| L1 | 1730 | injection adjusted time | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:09 |
| L2 | 46529 | wellbore OR borehole | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:19 |
| L3 | 30 | L1 AND L2 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:20 |
| L4 | 100 | injection (adjusted NEAR time) | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:44 |
| L5 | 7 | L2 AND L4 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:44 |
| L6 | 359 | injection (adjusted NEAR2 time) | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:46 |
| L7 | 13 | L6 AND L2 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:46 |
| L8 | 6 | L7 NOT L5 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/08/04 18:46 |
| S1 | 246 | ((DAVID) near2 (CRAIG)).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 10:26 |
| S2 | 7 | S1 AND thornton.inci. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/21 10:28 |
| S3 | 55 | ((DAVID) near2 (CRAIG)).INV. | EPO; JPO; DERWENT | OR | OFF | 2009/04/21 10:29 |
| S4 | 0 | S3 AND thornton.inci. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/21 10:33 |
| S6 | 874 | "craig, d".INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 10:37 |
| S7 | 124 | "craig, david".INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 10:39 |
| S8 | 7 | S7 AND thornton.inci. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/21 10:41 |

| S9 | 3 | S7 AND halliburton.asn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/21 10:42 |
|---|---|---|---|---|---|---|
| S10 | 3 | S2 AND halliburton.asn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/21 10:42 |
| S11 | 8 | ((DAVID ADJ P) near2 (CRAIG)).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 11:04 |
| S12 | 1 | S11 NOT S8 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 11:05 |
| S13 | 0 | ((DAVID ADJ P) near2 (CRAIG)).INV. | EPO; JPO; DERWENT | OR | OFF | 2009/04/21 11:06 |
| S14 | 3 | (("4531403") or ("5070457") or ("20030079875")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 11:08 |
| S15 | 1138 | (702/6,11,13).ccls. | US-PGPUB; USPAT | OR | OFF | 2009/04/21 11:27 |
| S16 | 1 | ("7054751").URPN. | USPAT | OR | OFF | 2009/04/21 12:16 |
| S17 | 2 | ("2005/0216198").URPN. | USPAT | OR | OFF | 2009/04/21 12:17 |
| S18 | 6 | ("20020096324" | "20050216198" | "20050222852" | "3285064" | "4797821").PN. OR ("7389185").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 12:30 |
| S19 | 223 | (166/250.1).ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 14:48 |
| S20 | 1 | dual unit slope wellbore storage | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:36 |
| S21 | 1 | dual unit slope wellbore | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:36 |
| S22 | 5 | unit slope wellbore | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:36 |
| S23 | 3 | (unit slope wellbore) AND fractur$5 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:39 |
| S24 | 229 | constant rate equivalent pressure | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:40 |
| S25 | 1 | S22 AND S24 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:40 |
| S26 | 13 | S24 AND fractur$5 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:41 |
| S27 | 8 | ((DAVID ADJ P) near2 (CRAIG)).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 15:42 |
| S28 | 8 | S26 NOT S27 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:42 |

| S29 | 5 | constant rate equivalent pressure | US-PGPUB; USPAT; USOCR | NEAR | ON | 2009/04/21 15:44 |
|-----|-----|-----|-----|-----|-----|-----|
| S30 | 0 | S29 NOT S27 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:44 |
| S31 | 28 | (transform$6 convert$6) ADJ2 pressure | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 15:46 |
| S32 | 19522 | (transform$6 convert$6) ADJ2 pressure | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 15:46 |
| S33 | 4 | S19 AND S32 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 15:46 |
| S34 | 4230 | well ADJ2 fractur$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 15:47 |
| S35 | 30 | S32 AND S34 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 15:47 |
| S36 | 4 | (("20050216198") or ("3285064") or ("4797821")). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/21 15:56 |
| S37 | 1 | (transform$6 OR convert$6) constant rate equivalent pressure | US-PGPUB; USPAT; USOCR | NEAR | ON | 2009/04/21 16:00 |
| S38 | 13 | (transform$6 OR convert$6) constant rate equivalent pressure | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:01 |
| S39 | 8 | S38 NOT S27 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:01 |
| S40 | 13 | S24 AND (pressure ADJ2 convert$4) | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:04 |
| S41 | 11 | S40 NOT S38 | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:04 |
| S42 | 0 | S22 AND (pressure ADJ2 convert$4) | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:09 |
| S43 | 1 | S22 AND (pressure NEAR2 convert$4) | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:09 |
| S44 | 0 | (transform$6 OR convert$6) constant equivalent pressure | US-PGPUB; USPAT; USOCR | NEAR | ON | 2009/04/21 16:14 |
| S45 | 48 | (transform$6 OR convert$6) constant equivalent pressure | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:14 |
| S46 | 5152332 | well wellbore borehole | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:14 |
| S47 | 40 | S45 AND S46 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:14 |
| S48 | 3 | S45 SAME S46 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:14 |
| S49 | 45367 | wellbore borehole | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:15 |
| S50 | 45367 | S49 AND S46 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:15 |
| S51 | 6 | S49 AND S45 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:15 |

| S52 | 1209 | (transform$6 OR convert$6) equivalent pressure | US-PGPUB; USPAT; USOCR | WITH | ON | 2009/04/21 16:18 |
|-----|------|------------------------------------------------|------------------------|------|-----|------------------|
| S53 | 50 | S49 AND S52 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:18 |
| S54 | 44 | S53 NOT S51 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/04/21 16:18 |
| S55 | 5119 | (73/152.01-152.62).ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 12:06 |
| S56 | 572 | S55 and fractur$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 12:11 |
| S57 | 1189 | (367/25-35).ccls. | US-PGPUB; USPAT | OR | OFF | 2009/07/23 10:09 |
| S60 | 740 | (fractur$4 (well OR wellbore) formation fluid pressur$4 inject$5 unit slope residual width) | US-PGPUB; USPAT | AND | ON | 2009/07/23 10:10 |
| S61 | 0 | S57 S60 | US-PGPUB; USPAT | AND | ON | 2009/07/23 10:10 |
| S62 | 1195 | (702/6,11,13).ccls. | US-PGPUB; USPAT | OR | OFF | 2009/07/23 10:11 |
| S63 | 5 | S62 S60 | US-PGPUB; USPAT | AND | ON | 2009/07/23 10:11 |
| S64 | 229 | (166/250.1).ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/23 12:15 |
| S65 | 740 | (fractur$4 (well OR wellbore) formation fluid pressur$4 inject$5 unit slope residual width) | US-PGPUB; USPAT | AND | ON | 2009/07/23 12:15 |
| S66 | 3 | S64 S65 | US-PGPUB; USPAT | AND | ON | 2009/07/23 12:15 |
| S68 | 1 | ("6904366").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/23 15:10 |
| S69 | 1 | ("20030051873").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/23 15:14 |
| S70 | 1 | ("20060212238").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/23 15:54 |
| S71 | 2 | dual unit slope wellbore stor $4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/07/23 17:05 |

| S72 | 2 | dual unit slope wellbore stor $4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | SAME | ON | 2009/07/23 17:06 |
|---|---|---|---|---|---|---|
| S73 | 6 | unit slope wellbore stor$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/07/23 17:06 |
| S74 | 0 | S72 NOT S71 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/07/23 17:06 |
| S75 | 4 | S73 NOT S71 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/07/23 17:07 |
| S76 | 8 | ((DAVID ADJ P) near2 (CRAIG)).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/23 17:43 |
| S77 | 0 | S76 AND @pd>="20090411" | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/23 17:43 |
| S78 | 2645 | (702/1,2,6,9,11-13).ccls. | US-PGPUB; USPAT | OR | OFF | 2009/07/23 18:09 |
| S79 | 1043 | (dual unit slope stor$4 well fractur$4 inject$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/07/23 18:10 |
| S80 | 13 | S78 AND S79 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/07/23 18:10 |
| S81 | 1 | (dual unit slope stor$4 well fractur$4 inject$4).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/07/23 18:11 |
| S82 | 1 | S79 and S81 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/07/23 18:11 |

| S83 | 0 | (jeffrey ADJ west).pa. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/07/24 10:46 |
|-----|---|------------------------|---------|-----|-----|---------|
| S84 | 0 | (jeffrey ADJ west).xp. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/07/24 10:46 |
| S85 | 24 | (jeffrey NEAR west).xp. | USPAT | AND | ON | 2009/07/24 10:47 |
| S86 | 1 | ("20050222852").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/24 12:06 |
| S87 | 12 | shut ADJ in ADJ (time OR period) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 12:46 |
| S88 | 0 | (shut ADJ in ADJ (time OR period)) WITH (pressure ADJ difference) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 12:46 |
| S89 | 0 | (shut ADJ in ADJ (time OR period)) WITH (pressure ADJ difference) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/08/03 12:47 |
| S90 | 0 | (shut ADJ in ADJ (time OR period)) SAME (pressure ADJ difference) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/08/03 12:47 |
| S91 | 5 | (shut ADJ in ADJ (time OR period)) AND (pressure ADJ difference) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/08/03 12:47 |
| S92 | 7 | S87 NOT S91 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/08/03 14:07 |

| S94 | 53 | "t.sub.ne" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/08/03 14:10 |
| S95 | 1 | ("20050222852").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/03 14:12 |
| S96 | 0 | ".DELTA.p"$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 14:13 |
| S97 | 9736896 | "DELTA.p"(t) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 14:14 |
| S98 | 11 | S94 WITH S97 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 14:15 |
| S99 | 42 | S94 NOT S98 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 14:18 |
| S100 | 0 | S99 AND wellbore | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 14:19 |
| S101 | 0 | S99 AND (bore ADJ2 hole) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/08/03 14:19 |
| S102 | 156 | time relative end injection | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:20 |

| S103 | 6 | shut-in time relative end injection | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:20 |
| S104 | 13 | shut-in time end injection | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:28 |
| S105 | 7 | S104 NOT S103 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:28 |
| S106 | 0 | S105 AND (pressure NEAR2 difference) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:30 |
| S107 | 0 | S105 AND (pressure NEAR2 initial) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:30 |
| S108 | 51 | log pressure versus time | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:30 |
| S109 | 21 | log-log pressure versus time | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:30 |
| S110 | 6 | S104 AND S109 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:35 |
| S111 | 0 | S110 NOT S103 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:35 |

| S112 | 1 | ".intg..sub.0.sup..DELTA.t. DELTA.pd.DELTA.t" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:58 |
| S113 | 13 | "p.sub.w"(t)"-p.sub.i" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 14:59 |
| S114 | 5 | S113 AND (pressure NEAR2 difference) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 15:00 |
| S115 | 7 | "t-t.sub.ne" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 15:01 |
| S116 | 2 | S115 NOT S114 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 15:02 |
| S117 | 0 | S114 NOT S113 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 15:02 |
| S118 | 8 | S113 NOT S114 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/08/03 15:03 |
| S119 | 1 | ("7387161").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/04 10:42 |

**8/4/2009 6:48:58 PM**
**C:\ Documents and Settings\ mhenson\ My Documents\ EAST\ Workspaces\ 10813698.wsp**